



**APPENDIX A - SPECIFICATION/CLAIM AMENDMENTS  
INCLUDING NOTATIONS TO INDICATE CHANGES MADE**

**Serial No.: 10/067,141**

**Docket No.: 50142 US 010**

---

Amendments to the following are indicated by underlining what has been added and bracketing what has been deleted. Additionally, all amendments have been placed in bold font.

**In the Claims**

For convenience, all pending claims are shown below.

1. A protective respirator, comprising:  
a face mask having an inhalation port through which a wearer of the mask inhales ambient air;  
an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port;  
a microphone assembly which is removably detachable from a location between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port, said spacer having a body with a passage extending the entire length thereof through which filtered air may pass from said filter to said inhalation port, said spacer further having a microphone extending therefrom;  
an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal; and  
a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.
2. The protective respirator of claim 1, wherein said amplifier and said loudspeaker form a combined amplifier/loudspeaker assembly.
3. The protective respirator of claim 2, wherein said combined amplifier/loudspeaker assembly is located remote from said face mask.

Joyce B. PALAZZOTTO et al.

Serial No.: 10/067,141

Confirm't'n No.: 7314

Filed: 04 February 2002

For: SPEECH TRANSMISSION ADAPTOR FOR USE WITH A RESPIRATOR  
MASK

---

4. The protective respirator of claim 3, wherein said combined amplifier/loudspeaker assembly is provided with a means for attaching said amplifier/loudspeaker assembly to a portion of the wearer's clothing.

5. The protective respirator of claim 3, wherein said spacer of said microphone assembly provides an airtight seal between said filter and said face mask.

6. The protective respirator of claim 1, wherein said spacer is provided with an inhale diaphragm, and opposite outer surfaces which lockingly engage, respectively, with said inhalation port and said air filter.

7. The protective respirator of claim 6, wherein said spacer is constructed of a plastic material.

8. The protective respirator of claim 7, wherein said spacer is comprised of a first member for connecting to the face mask and a second member for connecting to the air filter.

9. The protective respirator of claim 2, further comprising a wire for connecting said microphone to said combined amplifier/loudspeaker assembly, and wherein said wire includes strain relief means.

10. A voice transmission system for a protective respirator comprising (i) a face mask having an inhalation port through which a wearer of the mask inhales ambient air; and (ii) an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port, said voice

Joyce B. PALAZZOTTO et al.

Serial No.: 10/067,141

Confirm't'n No.: 7314

Filed: 04 February 2002

For: SPEECH TRANSMISSION ADAPTOR FOR USE WITH A RESPIRATOR  
MASK

---

transmission system comprising:

a microphone assembly which is removably detachable from a location between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port, said spacer having a body with a passage extending the entire length thereof through which filtered air may pass from said filter to said inhalation port, said spacer further having a microphone extending therefrom;

an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal; and

a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.

11. The voice transmission system of claim 10, wherein said amplifier and said loudspeaker form a combined amplifier/loudspeaker assembly.

12. **(Once Amended)** The voice transmission system of claim 11, wherein said combined amplifier/loudspeaker assembly is located remote from said face mask [**when the voice transmission system is in use**].

13. The voice transmission system of claim 12, wherein said combined amplifier/loudspeaker assembly is provided with a means for attaching said amplifier/loudspeaker assembly to a portion of a wearer's clothing.

14. The voice transmission system of claim 12, wherein said spacer of said microphone assembly provides an airtight seal between said filter and said face mask.

Joyce B. PALAZZOTTO et al.

Serial No.: 10/067,141

Confirm't'n No.: 7314

Filed: 04 February 2002

For: SPEECH TRANSMISSION ADAPTOR FOR USE WITH A RESPIRATOR  
MASK

---

15. The voice transmission system of claim 14, wherein said spacer is provided with an inhale diaphragm, and opposite outer surfaces which lockingly engage, respectively, with said inhalation port and said air filter.

16. The voice transmission system of claim 15, wherein said spacer is constructed of a plastic material.

17. The voice transmission system of claim 16, wherein said spacer is comprised of a first member for connecting to the face mask and a second member for connecting to the air filter.

18. The voice transmission system of claim 10, further comprising a wire for connecting said microphone to said combined amplifier/loudspeaker assembly, and wherein said wire includes strain relief means.

19. A protective respirator, comprising:  
a face mask having an inhalation port through which a wearer of the mask inhales ambient air;  
an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port;  
a microphone assembly located between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port and a microphone extending therefrom and into a clean air envelope of said face mask, said spacer providing an airtight seal between said filter and said face mask, said spacer having (i) a first outer surface facing an outer surface of said face mask, and (ii) a second outer surface facing an outer surface of said filter, and wherein said first outer surface and face mask outer surface, and

Joyce B. PALAZZOTTO et al.

Serial No.: 10/067,141

Confirm't'n No.: 7314

Filed: 04 February 2002

For: SPEECH TRANSMISSION ADAPTOR FOR USE WITH A RESPIRATOR  
MASK

---

said second outer surface and said filter outer surface, respectively, are provided with complementary geometrical configurations which mate with each other; and

an amplifier/loudspeaker assembly located remote from said microphone and including (i) an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal, and (ii) a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.

20. A voice transmission system for a protective respirator including (i) a face mask having an inhalation port through which a wearer of the mask inhales ambient air; and (ii) an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port, said voice transmission system comprising:

a microphone assembly adapted to be located between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port and a microphone extending therefrom into a clean air envelope of said face mask, said spacer providing an airtight seal between said filter and said face mask, said spacer having (i) a first outer surface facing an outer surface of the face mask, and (ii) a second outer surface facing an outer surface of the filter, and wherein said first outer surface and face mask outer surface, and said second outer surface and said filter outer surface, respectively, are provided with complementary geometrical configurations which mate with each other; and

an amplifier/loudspeaker assembly located remote from said face mask and comprising (i) an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal, and (ii) a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.

**Claim 1**

a protective respirator, comprising:	Throughout the application, e.g., Figs. 1 & 2.
a face mask having an inhalation port through which a wearer of the mask inhales ambient air;	Page 8, lines 20-28; Figs. 1 & 2.
an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port;	Page 8, lines 6-14 and lines 23-25; Figs. 1 & 2.
a microphone assembly which is removably detachable from a location between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port, said spacer having a body with a passage extending the entire length thereof through which filtered air may pass from said filter to said inhalation port, said spacer further having a microphone extending therefrom;	Page 9, line 8 to page 10, line 7; Page 11, lines 1-10; Figs. 3-6.
an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal; and	Page 11, lines 16-19.
a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.	Page 11, lines 16-19.

**Claim 2:**

the protective respirator of claim 1,	See Table for Claim 1.
wherein said amplifier and said loudspeaker form a combined amplifier/loudspeaker assembly.	Page 11, lines 16-19.

**Claim 3:**

the protective respirator of claim 2,	See Tables for Claims 1 & 2.
wherein said combined amplifier/loudspeaker assembly is located remote from said face mask.	Page 11, lines 16-19.

**Claim 4:**

the protective respirator of claim 3,	See Tables for Claims 1-3.
wherein said combined amplifier/loudspeaker assembly is provided with a means for attaching said amplifier/loudspeaker assembly to a portion of the wearer's clothing.	Page 11, lines 16-19.

**Claim 5:**

the protective respirator of claim 3,	See Tables for Claims 1-3.
wherein said spacer of said microphone assembly provides an airtight seal between said filter and said face mask.	Page 12, lines 3-7 and lines 12-18.

**Claim 6:**

the protective respirator of claim 1,	See Table for Claim 1.
wherein said spacer is provided with an inhale diaphragm,	Page 12, lines 8-11 and lines 24-31; Fig. 6.
and opposite outer surfaces which lockingly engage, respectively, with said inhalation port and said air filter.	Page 11, line 20 to page 12, line 2; Page 12, lines 8-11 and lines 24-31; Figs. 5 & 6.

**Claim 7:**

the protective respirator of claim 6,	See Tables for Claims 1 & 6.
wherein said spacer is constructed of a plastic material.	Page 11, lines 2-4.

**Claim 8:**

the protective respirator of claim 7,	See Tables for Claims 1, 6, & 7.
wherein said spacer is comprised of a first member for connecting to the face mask and a second member for connecting to the air filter.	Page 11, line 20 to page 12, line 2; Page 12, lines 12-23; Figs. 5 & 6.

**Claim 9:**

the protective respirator of claim 2,	See Tables for Claims 1 & 2.
further comprising a wire for connecting said microphone to said combined amplifier/loudspeaker assembly, and wherein said wire includes strain relief means.	Page 11, lines 6-15.

**Claim 10:**

a voice transmission system for a protective respirator, comprising:	Throughout the application, e.g., Figs. 1 & 2.
(i) a face mask having an inhalation port through which a wearer of the mask inhales ambient air; and	Page 8, lines 20-28; Figs. 1 & 2.
(ii) an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port, said voice transmission system comprising:	Page 8, lines 6-14 and lines 23-25; Figs. 1 & 2.
a microphone assembly which is removably detachable from a location between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port, said spacer having a body with a passage extending the entire length thereof through which filtered air may pass from said filter to said inhalation port, said spacer further having a microphone extending therefrom;	Page 9, line 8 to page 10, line 7; Page 11, lines 1-10; Figs. 3-6.
an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal; and	Page 11, lines 16-19.
a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.	Page 11, lines 16-19.



**Claim 11:**

the voice transmission system of claim 10,	See Table for Claim 10.
wherein said amplifier and said loudspeaker form a combined amplifier/loudspeaker assembly.	Page 11, lines 16-19.

**Claim 12:**

the voice transmission system of claim 11,	See Tables for Claims 10 & 11.
wherein said combined amplifier/loudspeaker assembly is located remote from said face mask.	Page 11, lines 16-19.

**Claim 13:**

the voice transmission system of claim 12,	See Tables for Claims 10-12.
wherein said combined amplifier/loudspeaker assembly is provided with a means for attaching said amplifier/loudspeaker assembly to a portion of the wearer's clothing.	Page 11, lines 16-19.

**Claim 14:**

the voice transmission system of claim 12,	See Tables for Claims 10-12.
wherein said spacer of said microphone assembly provides an airtight seal between said filter and said face mask.	Page 12, lines 3-7 and lines 12-18.

**Claim 15:**

the voice transmission system of claim 14,	See Tables for Claims 10-12 & 14.
wherein said spacer is provided with an inhale diaphragm,	Page 12, lines 8-11 and lines 24-31; Fig. 6.
and opposite outer surfaces which lockingly engage, respectively, with said inhalation port and said air filter.	Page 11, line 20 to page 12, line 2; Page 12, lines 8-11 and lines 24-31; Figs. 5 & 6.

**Claim 16:**

the voice transmission system of claim 15,	See Tables for Claims 10-12, 14 & 15.
wherein said spacer is constructed of a plastic material.	Page 11, lines 2-4.

**Claim 17:**

the voice transmission system of claim 16,	See Tables for Claims 10-12 & 14-16.
wherein said spacer is comprised of a first member for connecting to the face mask and a second member for connecting to the air filter.	Page 11, line 20 to page 12, line 2; Page 12, lines 12-23; Figs. 5 & 6.

**Claim 18:**

the voice transmission system of claim 10,	See Table for Claim 10.
further comprising a wire for connecting said microphone to said combined amplifier/loudspeaker assembly, and wherein said wire includes strain relief means.	Page 11, lines 6-15.

**Claim 19:**

a protective respirator, comprising:	Throughout the application, e.g., Figs. 1 & 2.
a face mask having an inhalation port through which a wearer of the mask inhales ambient air;	Page 8, lines 20-28; Figs. 1 & 2.
an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port;	Page 8, lines 6-14 and lines 23-25; Figs. 1 & 2.
a microphone assembly located between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port and a microphone extending therefrom and into a clean air envelope of said face mask,	Page 9, line 8 to page 10, line 7; Page 11, lines 1-10; Figs. 3-6.
said spacer providing an airtight seal between said filter and said face mask,	Page 12, lines 3-7 and lines 12-18.
said spacer having (i) a first outer surface facing an outer surface of said face mask, and (ii) a second outer surface facing an outer surface of said filter, and wherein said first outer surface and face mask outer surface, and said second outer surface and said filter outer surface, respectively, are provided with complementary geometrical configurations which mate with each other;	Page 11, line 20 to page 12, line 2; Page 12, lines 8-31; Figs. 5 & 6.
an amplifier/loudspeaker assembly located remote from said microphone and including (i) an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal, and (ii) a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.	Page 11, lines 16-19.

**Claim 20:**

a voice transmission system for a protective respirator including	Throughout the application, e.g., Figs. 1 & 2.
a face mask having an inhalation port through which a wearer of the mask inhales ambient air;	Page 8, lines 20-28; Figs. 1 & 2.
an air filter for filtering the inhaled ambient air and providing filtered air to said inhalation port;	Page 8, lines 6-14 and lines 23-25; Figs. 1 & 2.
a microphone assembly located between said inhalation port and said air filter, said microphone assembly including a spacer for separating said filter from said inhalation port and a microphone extending therefrom into a clean air envelope of said face mask,	Page 9, line 8 to page 10, line 7; Page 11, lines 1-10; Figs. 3-6.
said spacer providing an airtight seal between said filter and said face mask,	Page 12, lines 3-7 and lines 12-18.
said spacer having (i) a first outer surface facing an outer surface of said face mask, and (ii) a second outer surface facing an outer surface of said filter, and wherein said first outer surface and face mask outer surface, and said second outer surface and said filter outer surface, respectively, are provided with complementary geometrical configurations which mate with each other;	Page 11, line 20 to page 12, line 2; Page 12, lines 8-31; Figs. 5 & 6.
an amplifier/loudspeaker assembly located remote from said microphone and including (i) an amplifier connected to said microphone for receiving and amplifying sound transmitted by said microphone and outputting an amplified signal, and (ii) a loudspeaker connected to said amplifier for receiving and radiating said amplified signal.	Page 11, lines 16-19.